IN THE CLAIMS:

- 1-20 (Canceled)
- 21. (Currently Amended) Apparatus for carrying out liquid-liquid micro extraction or liquid-liquid micro extraction, said apparatus comprising:
- a first container for receiving a sample solution, the solution comprising a dissolved analyte;
- a second container, that is hollow, disposed within said first container and having a membrane wall with fibre pores permeable by the analyte;

a acceptor solution disposed within the second container; and means for enhancing transport of the analyte from the sample solution, through the membrane wall and into said acceptor solution.

- 22. (Previously Presented) The apparatus according to claim 21 further comprising a liquid membrane disposed in said fibre pores.
- 23. (Previously Presented) The apparatus according to claim 22 wherein said liquid membrane comprises 1-octanol.
- 24. (Previously Presented) The apparatus according to claim 21 wherein the second container is a tubular microporous fibre.
- 25. (Previously Presented) The apparatus according to claim 24 wherein the tubular fibre has a closed end and a open end for receiving and removal of said acceptor solution.
- 26. (Previously Presented) The apparatus according to claim 24 wherein the tubular fibre has two open ends for receiving and removal of said acceptor solution.
- 27. (Previously Presented) The apparatus according to claim 26 wherein the tubular fibre comprises a polymer.

28. (Previously Presented) The apparatus according to claim 21 wherein said first container has a volume of V_s , said second container has a volume of V_a and a ratio of V_s to V_a is \geq 50.

- 29. (Previously Presented) The apparatus according to claim 28 wherein V_a is between about 1 μ l and about 50 μ l.
- 30. (Previously Presented) The apparatus according to claim 21 wherein said acceptor solution has a pH for ionizing the analyte to prevent ionized analyte from passing from said acceptor solution through the membrane wall and into the sample solution.
- 31. (Currently Amended) Apparatus for carrying out liquid-liquid micro extraction or liquid-liquid micro extraction, said apparatus comprising:

a first container;

a sample solution disposed in said first container, said sample solution comprising a dissolved analyte;

a second container, that is hollow, disposed within said sample solution and having a membrane wall with fibre pores permeable by the analyte;

an acceptor solution disposed within the second container, said membrane wall enabling analyte equilibrium to be established between said sample solution and said acceptor solution.

- 32. (Previously Presented) The apparatus according to claim 31 further comprises a liquid membrane disposed in said fibre pores.
- 33. (Previously Presented) The apparatus according to claim 32 wherein said liquid membrane comprises 1-octanol.
- 34. (Previously Presented) The apparatus according to claim 31 further comprising means for accelerating analyte equilibrium between said sample solution and said acceptor solution.

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35. (Previously Presented) The apparatus according to claim 31 wherein the second container is a tubular microporous fibre.

- 36. (Currently Amended) The apparatus according to claim 35 wherein the tubular fibre has a closed end and an open end for receiving and removal of said acceptor solution.
- 37. (Previously Presented) The apparatus according to claim 35 wherein the tubular fibre has two open ends for receiving and removal of said acceptor solution.
- 38. (Previously Presented) The apparatus according to claim 37 wherein the tubular fibre comprises a polymer.
- 39. (Previously Presented) The apparatus according to claim 31 wherein said first container has a volume of V_s , said second container has a volume of V_a and a ratio of V_s to V_a is \geq 50.
- 40. (Previously Presented) The apparatus according to claim 39 wherein V_a is between about $1\mu l$ and about $50\mu l$.
- 41. (Previously Presented) The apparatus according to claim 31 wherein said acceptor solution has a pH for ionizing the analyte to prevent ionized analyte from passing from said acceptor solution through the membrane wall and into the sample solution.
- 42. (Currently Amended) A method of liquid-liquid micro extraction, or liquid-liquid-liquid micro extraction, said method comprising the steps of:

disposing a sample solution comprising a dissolved analyte into a first container; disposing a second container, that is hollow, into said sample solution, providing the second container with a membrane wall having fibre pores permeable by the analyte;

disposing an acceptor solution into the second container;

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allowing analyte equilibrium to be established between said sample solution and said acceptor solution through said membrane wall; and

removing analyte enriched acceptor solution from said second container.

- 43. (Previously Presented) The method according to claim 42 further comprising the step of disposing a liquid membrane in said fibre pores before disposing said second hollow container into said sample solution.
- 44. (Previously Presented) The method according to claim 42 wherein the step of disposing a second hollow container into said sample solution comprises disposing a tubular microporous fibre into said sample solution.
- 45. (Previously Presented) The method according to claim 44 wherein the step of disposing a tubular fibre comprises disposing a closed end fibre into said sample solution.
- 46. (Previously Presented) The method according to claim 44 wherein the step of disposing a tubular fibre comprises disposing a center portion of a tubular fibre having two open ends into said sample solution.
- 47. (Previously Presented) The method according to claim 44 wherein the step of disposing an acceptor solution into the second container comprising the step of disposing an acceptor solution having a pH for ionizing the analyte to prevent ionized analyte from passing from said acceptor solution through the membrane wall and into the sample solution.
- 48. (Currently Amended) A method of liquid-liquid micro extraction, or liquid-liquid-liquid micro extraction, said method comprising the steps of:

disposing a sample solution comprising a dissolved analyte into a first container; disposing a second container, that is hollow, into said sample solution and providing the second container with a membrane wall permeable by the analyte;

disposing an acceptor solution into the second container;

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enriching analyte in said acceptor solution by allowing analyte equilibrium between said sample solution and said acceptor solution through said membrane wall; and removing analyte enriched acceptor solution from said second container.

- 49. (Previously Presented) The method according to claim 48 further comprising the step of disposing a liquid membrane in said fibre pores before disposing said second hollow container into said sample solution.
- 50. (Previously Presented) The method according to claim 48 wherein the step of disposing a second hollow container into said sample solution comprises disposing a tubular microporous fibre into said sample solution.
- 51. (Previously Presented) The method according to claim 50 wherein the step of disposing a tubular fibre comprises disposing a closed end fibre into said sample solution.
- 52. (Previously Presented) The method according to claim 50 wherein the step of disposing a tubular fibre comprises disposing a center portion of a tubular fibre having two open ends into said sample solution.
- 53. (Previously Presented) The method according to claim 48 wherein the step of disposing an acceptor solution into the second container comprising the step of disposing an acceptor solution having a pH for ionizing the analyte to prevent ionized analyte from passing from said acceptor solution through the membrane wall and into the sample solution.
- 54. (Currently Amended) A method of liquid-liquid micro extraction, or liquid-liquid liquid micro extraction, said method comprises the steps of:

disposing a sample solution comprises a dissolved analyte into a first container; disposing a second container, that is hollow, into said sample solution and providing the second container with a membrane wall permeable by the analyte;

disposing an acceptor solution into the second container and providing the acceptor

solution with a pH for ionizing the analyte in order to prevent ionized analyte from passing from said acceptor solution through the membrane wall and into the sample solution;

enriching analyte in said acceptor solution by allowing analyte equilibrium between said sample solution and said acceptor solution through said membrane wall; and removing analyte enriched acceptor solution from said second container.

- 55. (Previously Presented) The method according to claim 54 further comprising the step of disposing a liquid membrane in said fibre pores before disposing said second hollow container into said sample solution.
- 56. (Previously Presented) The method according to claim 54 wherein the step of disposing a second hollow container into said sample solution comprises disposing a tubular microporous fibre into said sample solution.
- 57. (Previously Presented) The method according to claim 56 wherein the step of disposing a tubular fibre comprises disposing a closed end fibre into said sample solution.
- 58. (Previously Presented) The method according to claim 56 wherein the step of disposing a tubular fibre comprises disposing a center portion of a tubular fibre having two open ends into said sample solution.